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January 31, 2001

Jim Loock, Chief Electric Engineer Public Service Commission 610 N. Whitney Way P.O. Box 7854 Madison, WI 53707-7854

RE: In the Matter of Filing Plans for Appropriate Inspection and

Maintenance, PSC Rule 113.0607.

Dear Mr. Loock:

Enclosed for filing are 3 copies of Elroy Electric Utility's Preventative Maintenance Plan detailing inspection maintenance schedules, condition rating criteria, corrective action schedules, record keeping procedures and report filing schedules as documented in this rule.

Very truly yours,

Ron Silverthorn

Electric Superintendent

**Enclosures** 

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Electric Division

# PREVENTATIVE MAINTENANCE PLAN

# **ELROY ELECTRIC UTILITY**

FILING DEADLINE FEBRUARY 1, 2001

January 29, 2001

Ron Silverthorn 225 Main St. Elroy, Wi. 53929 elroyelec@mwt.net

This plan was prepared by the MEUW work group for PSC Rule 113.0607 for use by the 82 municipal electric utilities in Wisconsin and endorsed by PSC staff as meeting the requirements of Rule PSC 113.0607.

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#### I. Preventative Maintenance Plan

The PSC 113.0607 rule reads;

Appropriate inspection and maintenance: system reliability.

- (1) PREVENTATIVE MAINTENANCE PLAN. Each utility or other person subject to this chapter, including persons who own electric generating facilities in this state who provide service to utilities with contracts of five years or more, shall develop and have in place its own preventative maintenance plan. This section is applicable to electric generating facilities as set forth at s. 194.491(5)(a)(1), Stats. Each plan shall include, among other things, appropriate inspection, maintenance and replacement cycles where applicable for overhead and underground distribution plant, transmission, generation<sup>1</sup>, and substation facilities.
- (2) CONTENTS OF THE PLAN. (a) *Performance standard*. The Preventative Maintenance Plan shall be designed to ensure high quality, safe, and reliable service, considering: cost, geography, weather, applicable codes, national electric industry practices, sound engineering judgment and experience.
- 1 PSC staff interpretation is that generation applies to individual generators equal to or greater than 50 MW.

# II. Inspection Schedule and Methods:

The purpose of this plan is to maintain or improve the electrical system reliability with the objective of increased municipal loyalty and satisfaction from our constituents. The goals are to meet and exceed the schedules established in this plan.

Exception reporting (inspected equipment not in good condition) will be the method of documentation on all inspection forms.

The scope of this plan is traditional and uses proven maintenance techniques. Unique operating and maintenance philosophies have not been considered. Also, manufacturer defects will be dealt with as they are communicated to this utility.

**EVERY** 

SCHEDULE:	MONTHLY	ANNUAL	5 YEARS
Transmission (≥69Kv and above)		X	X
Substations	X	X	
Distribution (OH & UG)			X

The inspection of Distribution facilities will be by individual substation circuits on a 5-year cycle such that the entire system will be inspected every 5 years. Inspector instructions for inspecting all facilities and forms are included with the plan.

METHODS: Five criteria groups will be used to complete the inspection of all facilities.

- 1. <u>IR</u> infrared thermography used to find poor electrical connections and/or oil flow problems in equipment.
- 2. <u>RFI</u> Radio Frequency Interference, a byproduct of loose hardware and connections, is checked using an AM radio receiver.
- 3. <u>SI</u> structural integrity of all supporting hardware including poles, crossarms, insulators, structures, bases, foundations, buildings, etc.
- 4. <u>Clearance</u> refers to proper spacing of conductors from objects, trees and other utility cables.
- 5. <u>EC</u> equipment condition on non-structural components such as circuit breakers, transformers, regulators, reclosers, relays, batteries, capacitors, etc.

# III. Condition Rating Criteria:

This criterion, as listed below, establishes the condition of a facility and also determines the repair schedule to correct deficiencies.

- 0) Good condition
- 1) Good condition but aging
- 2) Non-critical maintenance required normally repair within 12 months
- 3) Priority maintenance required normally repair within 90 days
- 4) Urgent maintenance required report immediately to the utility and repair normally within 1 week

#### IV. Corrective Action Schedule

The rating criteria as listed above determine the corrective action schedule.

# V. Record Keeping

All inspection forms and records will be retained for a minimum of 10 years. The inspection form contains all of the required critical information i.e. inspection dates, condition rating, schedule for repair and date of repair completion.

# VI. Reporting Requirements

A report and summary of this plan's progress will be submitted every two years with the first report due to the Commission by February 1, 2003. The report will consist of a letter documenting the percent of inspections achieved compared to the schedule and a description of maintenance achieved within the scheduled time allowance.

## VII DISTRIBUTION - OVERHEAD INSPECTION GUIDE

#### **STRUCTURE**

- Pole Condition
- Pole Leaning
- Crossarm Condition
- Insulators, Deadend, Pin
- Excess Fill or Soil Removal
- Pole Steps
- Grounds Intact
- Ground Molding
- Down Guys
- Guy Markers
- Guy Bonding/Insulator
- Signage Location Number, Warning Sign
- Customer Equipment
- Conductor
- Tie Wires
- U Guard/Conduit Condition

#### **EQUIPMENT**

- Transformers
  - ✓ Oil Leaks
  - ✓ Bushing Condition
  - ✓ Grounding/Bonding
- Capacitors
  - ✓ Fuses Blown
  - ✓ Bushing Condition
  - ✓ Oil Leaks
  - ✓ Tank Bulged
  - ✓ Switches, Oil, Vacuum
  - ✓ Control Conduit/Wiring
  - ✓ Grounding/Bonding
- Switches GOAB, Inline, Disconnect
  - ✓ Insulator Condition
  - ✓ Operating Handle/Locks
  - ✓ Linkage
  - ✓ Grounding/Bonding
  - ✓ Switch Number
- Cutouts
  - ✓ Insulator Condition
  - ✓ Fuse Size Tag

# VII DISTRIBUTION - OVERHEAD INSPECTION GUIDE (con't)

#### EQUIPMENT (CON'T)

- Arrestor
  - ✓ Insulator Condition
  - ✓ Connections
  - ✓ Ground Lead Disconnection
- Cable Terminators
  - ✓ Insulator Condition
  - ✓ Grounding/Bonding

#### **CLEARANCES**

- Ground Line
- Buildings, Bridges, Swimming Pool, Etc.
- Communications Facilities
- Fuel Tanks
- Other Electric Utilities
- Transmission Lines
- Over Streets, Roads, Alleys, Highways
- Tree Trimming
  - ✓ Clearance From Line
  - ✓ Vines on Poles
  - ✓ Danger Trees

#### **INFRARED SCAN**

- Main Three-Phase Feeders
- Priority Overhead Transformer Banks
  - ✓ Bushing Connectors Primary
  - ✓ Bushing Connectors Secondary
  - ✓ General Tank Heating
- Current & Voltage Transformers if Applicable

#### RFI CHECK

• OH system with AM radio as each circuit is inspected

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		Corrected By												
Ckt		Date Item Corrected												
Inspected bySub	COMMENTS	Rating Criteria  0) Good Condition 1) Good Condition but aging 2) Non-critical Maintenance Required 3) Priority Maintenance Required 4) Urgent Maintenace Required												
<del></del> ,		Communication Clearance												
	CLEARANCE	Streets, Roads, Alleys												
	₽ B	Building Clearances												
اه	<u>\</u>	Ground Line Clearances												
Date <sub>.</sub>	0	Tree Trimming					<u> </u>							<b></b>
		Street Light				<u> </u>	<u> </u>					ļ		
	Þ	Terminators					<u> </u>				<u> </u>			
	ME	Arresters					<u> </u>			<u>.</u>	<u> </u>			
	EQUIPMENT	Cutouts					Ī		<u> </u>					
5	¤	Switches									<u> </u>			
R	"	Transformer												
Ö		KFI Check												
7		U'Guard/Conduit Cond										<u> </u>		
ō		Conductor and Ties									<u> </u>			
E		Customer Equipment											<u> </u>	
EC	Ш	Signs, Loc#, Warning										<u> </u>	<u> </u>	
ЗP	STRUCTURE	Guy Bond, Insulator										<u> </u>		<u> </u>
ž	5	Down Guys and Markers									<u> </u>			
Z	№	Grounds Intact, Molding									<u> </u>			
0	S	Pole Steps							<u> </u>					
$\vdash$		Soil Conditions			$I^{-}$							<u> </u>		_
翼		nsulators, DE, Pin											<u> </u>	<u> </u>
<u>~</u>		Crossarm Condition									1_	_		1_
S		Pole Condition/Leaning							 			_		—
OVERHEAD DISTRIBUTION INSPECTION FO	MAP AREA	LOCATION												
O				 		l			 ш.			1		

# VIII DISTRIBUTION - UNDERGROUND INSPECTION GUIDE

# STRUCTURAL (Exterior & Interior) Transformer, Primary Pedestal, Secondary Pedestal, Switchgear.

- Enclosure Condition
- Level/Leaning
- Security
- Grade/Accessibility (Shrubs, Customer Facilities, Fill/Excavation)
- Numbering
- Voids/Gaps
- Signage Location Number, Warning Sign
- Pad/Vault Condition

#### **EOUIPMENT**

- Transformers
  - ✓ Oil Leaks
  - ✓ Bushing Condition
  - ✓ Grounding/Bonding
  - ✓ Elbows
  - ✓ Arrestors
  - ✓ Feed-Through
  - ✓ Cable Condition
  - ✓ Secondary Connections
- Primary Pedestals
  - ✓ Elbows
  - ✓ Junction Condition
  - ✓ Grounding/Bonding
- Secondary Pedestals
  - ✓ Secondary Connections
- Switches URD Switchgear
  - ✓ Insulator Condition
  - ✓ Operating Handle Security
  - ✓ Linkage
  - ✓ Grounding/Bonding
  - ✓ Switch Number/Fuse Size & Number

## INFRARED SCAN and RFI CHECK

- Main Three-Phase Feeders (Risers & Switchgear)
- Priority URD Transformer Banks
  - ✓ Bushing Connectors Primary
  - ✓ Bushing Connectors Secondary
  - ✓ General Tank Heating

MEUW - Preventative Maintenance Plan Format

	Corrected By																
	Date Item Corrected																
COMMENTS	Rating Criteria  0) Good Condition  1) Good Condition but aging  2) Non-critical Maintenance Required  3) Priority Maintenance Required  4) Urgent Maintenace Required																
R / RFI Scan	Priority URD Transformers, Bushings and Tank heating																
IR/RI	Aain Three Phase Feeders, Risers & Switchgear											<u></u>	L				
	Switches, Signage, Inaulators, Security, Linkage, Ground, Bonds																
IN.	Secondary Pedestals, Connections									_				_			
EQUIPMENT	Primary Pedestals, Elbows, Grounding, Bonds, Junction cond.																
E	Transformers, Leaks, Bushings, Grounding,Bonds,Elbows, Arrestors, Cable cond, Connections																
	Pad / Vault Condition						_	_					_	_	-	-	
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끭	Voids / Gaps				-	+	+	-	+		-	-	+	-		-	-
STRUCTURE	упшрецид	$\vdash$			╁	+	+	+		+	-	+	+	+	+	-	-
STR	Security Grade / Accessibility					╁	+	+		-	-	+	+			-   -	
	Level / Leaning	┝				+	$\dagger$	$\dagger$	+	$\dagger$				$\dagger$	$\dagger$		
	Enclosure Condition			<del></del>	+	+		$\dagger$			1				$\dagger$		
MAD AREA	EQUIPMENT																

Circuit

Sub

\_Inspected by\_

UNDERGROUND DISTRIBUTION INSPECTION FORM Date\_

# IX SUBSTATION - MONTHLY INSPECTION GUIDE

## TRANSFORMER MAIN TANK:

- Oil in bushings
- Bushing and arrestor porcelain
  - ✓ Cracks or chips
  - ✓ Rust or dirt
- Oil leaks
  - ✓ Main tank
  - ✓ Sample valves
  - ✓ Radiators
- Radiator bank
  - ✓ warm on top, cool at bottom
- Tank pressure
- Tank oil level
- Temperature gauge
- Cooling fans

# TRANSFORMER LTC or VOLTAGE REGULATORS:

- Tank oil level
- Drag hand positions
- Cabinet light
- Operation count
- Tank pressure
- Cabinet heater
- Cabinet contamination

# TRANSMISSION CIRCUIT BREAKERS:

- OPEN/CLOSED indicator
- CHARGED/DISCHARGED indicator
- Cabinet light
- Cabinet heater
- Operations counter
- Bushings and supports
  - ✓ Cracks or chips
  - ✓ Rust or dirt
- Line and load side disconnect switches
  - ✓ Properly labeled
  - ✓ Aligned properly
- Handles grounded
- Emergency trip button
- Air / Oil compressors
- Air / Oil pressure gauge
- Spring operated mechanism
- Oil level gauge
- Tank oil leaks
- Reset switch
- Cabinet contamination
- Vents clean
- Gas pressures for GCBs

# IX SUBSTATION - MONTHLY INSPECTION GUIDE (con't)

# FEEDER CIRCUIT BREAKERS / RECLOSERS

- OPEN/CLOSED indicator
- CHARGED/DISCHARGED indicator
- Cabinet light
- Cabinet heater
- Operations counter
- Bushings and supports
  - ✓ Cracks or chips
  - ✓ Rust or dirt
- Line and load side disconnect switches
  - ✓ Labeled properly
  - ✓ Aligned properly
  - ✓ Handles grounded
- Emergency trip button
- Oil level gauge
- Tank oil leaks
- Reset switch
- Cabinet contamination
- Vents clean
- Gas pressures for GCBs

## HIGH AND LOW VOLTAGE BUSS WORK:

- Bushing, insulator, arrestor, and support insulators
  - ✓ Chips or cracks
  - ✓ Rust or dirt
- Bird nests
- Potential transformers bushings
  - ✓ Cracks or chips
  - ✓ Rust or dirt
- Cable terminators
  - ✓ Leaking fluid
  - ✓ Cracks or chips

#### **MANUAL SWITCHES:**

- Properly labeled
- Ground connections
- Positioning and alignment
- Bushing and support insulators
  - ✓ Cracks or chips
  - ✓ Rust or dirt

#### **MOTOR OPERATED SWITCHES:**

- OPEN/CLOSED indicator
- Properly labeled
- Cabinet heater
- Operations counter

# IX SUBSTATION - MONTHLY INSPECTION GUIDE (con't)

# **CONTROL HOUSE/MISCELLANEOUS:**

- Clock displays proper time
- AC/DC load center breakers
- Room temperature
- Rodents
- Panels labeled properly
- Panel lights
- Annunciator panel
- Panel meters
- SCADA system RTU
- SCADA alarms
- Position indicators agree
- Relay target information
- Emergency contact directory & dial tone for phone
- Safety Equipment

#### BATTERY:

- Liquid levels
- Proper float voltage on charger and battery
- Specific gravity in pilot cell
- Personal Protective Equipment
- Connection corrosion
- Leaking cells
- Dated solution in eyewash station

#### YARD AND FENCE:

- Fire extinguisher charged
- Fence ground connections
- Fence secured
- Security and emergency lights
- Site base and grade
- Standing water
- Warning signs

MONTHLY S	SUBSTAT	ION I	<u>NSF</u>	EC	TIO	N FORM	
INSPECTED BY:							
DATE:							
SUBSTATION:							
TRANSFORMER MAIN TANK	RATING:	0 1	2	3	4	(Circle One)	
inspected X		COMME	NTS			DATE CORRECTED	CORRECTED BY
Oil in Bushings							
Bushing and Arrestor							
Oil Leaks					<del></del>		
Main Tank							
Sample Valves							
Radiators							
Radiator Bank							
Tank Pressure							
Tank Oil Level							
Temperature Gauge							
Cooling Fans							
Ĭ I							
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TRANSFORMER LTC or VOLTAGE REGULATORS	RATING:	0 1	2	3	4	(Circle One)	
Tank Oil Level							
Drag Hand Positions							
Cabinet Light							
Operation Count							<del></del>
Tank Pressure							ļ
Cabinet Heater							
Cabinet Contamination							

MONTHLY SU	B	STATION	INS	PE	CTI	ON	FORM	
INSPECTED BY:								
DATE:								
SUBSTATION:								
HIGH VOLTAGE CIRCUIT BREAKER / CIRCUIT SWITCHER		RATING: 0	1	2	3	4	(Circle One)	
inspected	¥	co	MMEN	ITS			DATE CORRECTED	CORRECTED BY
OPEN/CLOSED Indicator	$\stackrel{\sim}{+}$							
CHARGED/DISCHARGED Indicator	_							
Cabinet Light	一							
Cabinet Light Cabinet Heater								
Operations Counter								
Bushings and Supports								
Line and Load Side Disconnect Switches								
Handles Grounded								
Emergency Trip Button								
Air Compressors - Air / Oil								
Air Pressure Gauge - Air / Oil								
Spring Operated Mechanism								
Oil Level Gauge								
Tank Oil Leaks								
Reset Switch					<u> </u>			
Cabinet Contamination					<del></del>		<del>- </del>	
Vents Clean								
Gas Pressures for GCBs			<del></del>					

MONTHLY S	UE	STATION INSPECTIO	N FURM	
NSPECTED BY:				
DATE:				
SUBSTATION:				
FEEDER CIRCUIT BREAKER / RECLOSER		RATING: 0 1 2 3 4	(Circle One)	
inspected	х	COMMENTS	DATE CORRECTED	CORRECTED BY
OPEN/CLOSED Indicator				
CHARGED/DISCHARGED Indicator				
Cabinet Light				
Cabinet Heater				
Operations Counter				
Bushings and Supports				
Line and Load Side Disconnect Switches				
Emergency Trip Button				
Oil Level Gauge				
Tank Oil Leaks				
Reset Switch				
Cabinet Contamination				-
Vents Clean				
Gas Pressures for GCBs	$\sqcup$			
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MONTHLY SU	JBS	STATIO	<u> </u>	NS	PE	CTI	ON	FORM	
NSPECTED BY:									
DATE:									
SUBSTATION:									
HIGH & LOW VOLTAGE BUSS WORK		RATING:	0	1	2	3	4	(Circle One)	
inspected	x		COI	MEN	ITS			DATE CORRECTED	CORRECTED BY
Bushing, Insulator, Arrestor, and Supports									
Bird Nests									
Transformer Bushings						<u></u>			
Cable Terminators							<del></del>		
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	1								
MANUAL SWITCHES	<u> </u>	RATING:	0	1	2	3	4	(Circle One)	
Properly Labeled									
Ground Connections	$\downarrow \downarrow$								
Positioning and Alignment	1 1								
Bushings and Supports	1 1					<u></u>			
	-								
					····		<u></u>		
MOTOR OPERATED SWITCHES		RATING:	0	1	2	3	4	(Circle One)	
OPEN/CLOSED Indicator									
Proper Labeling									
Cabinet Heater				_					
Operations Counter									
locking criteria									
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MONTHLY	SU	BSTATI	<u>ON</u>	IN	<u>SP</u>	EC.	TIOI	N FORM	
NSPECTED BY:									
DATE:									
SUBSTATION:									
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CONTROL HOUSE/MISCELLANEOUS		RATING:	0	1	2	3	4	(Circle One)	
inspected	х		COM	MMEN	ITS			DATE CORRECTED	CORRECTED BY
Clock Displays Proper Time									
AC/DC Load Center Breakers									
Room Temperature									
Rodents									
Panels Labeled Properly									
Panel Lights									
Annunciator Panel									
Panel Meters									
SCADA System RTU									
SCADA Alarms									
Position Indicators Agree									
Relay Target Information									
Emergency Contact Directory & Dialtone for Phone						<u></u>			
Safety Equipment									
BATTERY		RATING:	0	1	2	3	4	(Circle One)	<b></b>
Liquid Levels									
Proper Float Voltage on Charger & Battery									
Specific Gravity in Pilot Cell									
Personal Protective Equipment									
Connection Corrosion									
Leaking Cells									
Dated Solution in Eyewash Station									
								(0)101	
YARD & FENCE		RATING:	: 0 	1	2	3	4	(Circle One)	T
Fire Extinguisher Charged	4-1-								<del> </del>
Fence Ground Connections	++								<del> </del>
Fence Secured	4-1-								<del> </del>
Security and Emergency Lights	$\bot \bot$	············							
Site Base and Grade	$+\!\!\!+\!\!\!\!+$								
Standing Water	+								
Warning Signs									<u> </u>

# X Substation - Annual Inspection Guide

- Check equipment for level
- Check condition of concrete pads
- Perform oil and DGA analysis
- Battery
  - ✓ Intercell strap resistance
  - ✓ Individual cell voltages
  - ✓ Cell specific gravity
- Nameplate legible
- Equipment paint condition
- Proper equipment ID labels
- IR / RFI scans and checks

# ANNUAL SUBSTATION INSPECTION FORM

	VANCE	Corrected By														
1	MAINTENANCE COMPLETED	Date Item Corrected														
Substation	COMMENTS	Rating Criteria  0) Good Condition  1) Good Condition but aging  2) Non-critical Maintenance Required  3) Priority Maintenance Required  4) Urgent Maintenace Required														
		IK / KEI scans and checks	_			_	_			_	<u> </u>		_			
	⊴	Proper identification labels									_	-	<u> </u>			
	RITER	Equipment paint condition											_	-		
	ON OF	Nameplate legible														
Inspected by	JBSTATION INSPECTION CRITERIA	Battery checks - Intercell strap resistance, Individual cell voltages, Cell specific gravity					- 1	 								
spect	JBSTA	Perform oil and DGA analysis											, V			
ڐ	าร	Check condition of concrete pads														
		Check equipment for level														
Date		EQUIPMENT LISTING	Transformer	LTC or regulators	High Voltage Breaker	Feeder CBs / Reclosers			Cwitches	CMICA				Control bound batten/	Control nouse battery Transmission line RFI	ı

# XI TRANSMISSION – ANNUAL INSPECTION GUIDE

#### STRUCTURE

- Pole Condition
- Pole Leaning
- Crossarm Condition
- Insulators, Deadend, Pin
- Excess Fill or Soil Removal
- Pole Steps
- Grounds Intact
- Ground Molding
- Down Guys
- Guy Markers
- Guy Bonding/Insulator
- Signage Location Number, Warning Sign
- Customer Equipment
- Conductor
- Tie Wires

#### **EQUIPMENT**

- Switches GOAB, Disconnect
  - ✓ Insulator Condition
  - ✓ Operating Handle/Locks
  - ✓ Linkage
  - ✓ Grounding/Bonding
  - ✓ Switch Number
- Arrestor
  - ✓ Insulator Condition
  - ✓ Connections

#### **CLEARANCES**

- Ground Line
- Buildings, Bridges, Etc.
- Communications Facilities
- Fuel Tanks
- Other Electric Utilities
- Over Streets, Roads, Alleys, Highways
- Tree Trimming
  - ✓ Clearance From Line
  - ✓ Vines on Poles
  - ✓ Danger Trees

# XI TRANSMISSION - ANNUAL INSPECTION GUIDE (con't)

#### RFI CHECK

- Splices
- Connectors
- Dead Ends
- Switches
- Structures

# XII TRANSMISSION - 5 YEAR INSPECTION GUIDE

#### IR SCAN

- Splices
- Connectors
- Dead Ends
- Switches

# ANNUAL TRANSMISSION INSPECTION FORM

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Sub

Inspected by\_

Date

		Corrected By																					
		Date Item Corrected																				-	
COMMENTS		Rating Criteria  O) Good Condition  O) Good Condition  O) Cood Condition  Cood Condition  Dood Condition  Cood Condition  Dood Condition  Cood Condition  Dood Condition  Cood Condition  Dood Condition  Cood Cood Cood Condition  Cood Cood Cood Cood Cood Cood Cood Coo																					
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HONDANCE.		Streets, Roads, Alleys	$\perp$	$\perp$	_	_	$\downarrow$	_					1_	-	-	ऻ	-	-	$\vdash$	+	+	+	-
400	5	Building Clearances			_	_					-	_	1_	-	_	-	╽_	-	$\vdash$	_	+	$\perp$	4
-	3	Ground Line Clearances								_	<u> </u>		$oldsymbol{\perp}$	_	1	-	_	$\perp$	_	$\downarrow$	+	+	-
		Tree Trimming									_	_	_	_	_	_	_	-	-	$\perp$	$\perp$		4
FIATA	NI I	Arresters																					
		Switches																	_	_		$\perp$	
		KEI Check										_	_			_	_	<u> </u>	1_		1	$\perp$	
		Conductor and Ties												┸			L	$\perp$	$\perp$	$\downarrow$	_	$\downarrow$	_
	Ī	Customer Equipment								}						L	$\perp$	$\perp$			1	$\perp$	
	ľ	Signs, Loc#, Warning																			_	$\perp$	
L	빌	Guy Bond, Insulator																				$\perp$	
	2	Down Guys and Markers																$\perp$				$\perp$	
2	3	Grounds Intact, Molding																$\perp$			1	$\bot$	
	SIRUCIURE	Pole Steps																	_	1	_	_	
		Sondifions																				$\perp$	
		Insulators, DE, Pin																					_
		Crossarm Condition																					
	İ	Pole Condition/Leaning																					_
	MAP AREA	LOCATION																					